

#### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

21710	7590	09/29/2003		EXA	MINER
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	ONE FINANCIAL CENTER BOSTON, MA 02111			ART UNIT	CLASS-SUBCLASS
			·	2839	385-083000
				DATE MAILED: 09/29/20	03
APPLICATION N	io. fili	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/614,155	07.	/11/2000	Dan A. Steinberg	ACT-121	1603

TITLE OF INVENTION: OPEN FACE OPTICAL FIBER ARRAY FOR COUPLING TO INTEGRATED OPTIC WAVEGUIDES AND OPTOELECTRONIC SUBMOUNTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$650	\$0	\$650	12/29/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
   See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents

Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as

indicated unless corrected to maintenance fee notification	oelow or directed otherwise is.	in Block 1, by (a	i) specifying a nev	v correspondence addres	ss; and/or (b) indicating a sep-	arate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 21710 7590 09/29/2003  BROWN, RUDNICK, BERLACK & ISRAELS, LLP.				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mushave its own certificate of mailing or transmission.			
BOX IP, 18TH FLONE FINANCIAL BOSTON, MA 021	OOR CENTER	ISKALLS, LI	LI.	C	certificate of Mailing or Tran this Fee(s) Transmittal is beine the with sufficient postage for fin lail Stop ISSUE FEE address SPTO, on the date indicated be	smission	
						(Depositor's name)	
•						(Signature)	
	•					(Date)	
			***			(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED IN	ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/614,155 TITLE OF INVENTION: SUBMOUNTS	07/11/2000 OPEN FACE OPTICAL	FIBER ARRAY	Dan A. Steinl FOR COUPLE	•	. ACT-121 O OPTIC WAVEGUIDES A	· 1603 AND OPTOELECTRONIC	
APPLN. TYPE	SMALL ENTITY	ISSUE F	EE .	BUDI IOATION PET	TOTAL PER(C) DUE	DATE DATE	
	YES	\$650		PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	I ES	2020		\$0	\$650	12/29/2003	
EXAM	INER	ART UN	IIT I	CLASS-SUBCLASS	7		
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Address form PTO/SB/12  "Fee Address" indicating PTO/SB/47; Rev 03-02 of Number is required.  3. ASSIGNEE NAME AND PLEASE NOTE: Unless been previously submitted.  (A) NAME OF ASSIGNITED Please check the appropriate for Issue Fee    Issue Fee   Publication Fee   Advance Order - # of the Please of the Issue Fee   Advance Order - # of the Please of the Issue Fee   Advance Order - #	on (or "Fee Address" Indicator more recent) attached. Use RESIDENCE DATA TO Be an assignee is identified be do the USPTO or is being set.  assignee category or catego enclosed:	E PRINTED ON Tolow, no assignee disubmitted under see (B	agent) and the attorneys or a will be printed.  THE PATENT (pri ata will appear on parate cover. Come) RESIDENCE: (c)  inted on the patent of Payment of Fee(  A check in the  Payment by crown of The Director in Deposit Account	the patent. Inclusion of pletion of this form is NO CITY and STATE OR CO  it individual	assignee data is only approprious a substitute for filing an assountry)  Corporation or other private granclesed.	roup entity	
(Authorized Signature)		(Date)					
NOTE; The Issue Fee and other than the applicant; interest as shown by the rec This collection of informatobtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark C 22313-1450. DO NOT S SEND TO: Commissioner 1	Publication Fee (if require a registered attorney or agreement of the United States Pation is required by 37 CFR by the public which is to first governed by 35 U.S.C. I est to complete, including gent to the USPTO. Time will the amount of time you make the united of the USPTO. Time will be suffice. U.S. Department of the USPTO.	ent; or the assigne tent and Trademar	e or other party k Office.	in			
22313-1450. DO NOT Si SEND TO: Commissioner of Under the Paperwork Recollection of information un	END FEES OR COMPLE for Patents, Alexandria, Virg fuction Act of 1995, no paless it displays a valid OMF	TED FORMS TO ginia 22313-1450. persons are require 3 control number.	THIS ADDRES	S. a			



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21710	7590 09/29/2003		EXAMI	NER
BROWN, RUI	DNICK, BERLACK & ISI	HYEON,	HYEON, HAE M	
BOX IP, 18TH I		•	ART UNIT	PAPER NUMBER
BOSTON, MA 02111			2839	. **
			DATE MAILED: 09/29/2003	3

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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21710 7	590 09/29/2003		EXAMINER		
BROWN, RUDN	NICK, BERLACK &	HYEON, HAE M			
BOX IP, 18TH FL	OOR				
ONE FINANCIAI	L CENTER	ART UNIT PAPER NUMBER			
BOSTON, MA 02	1 1.1		2839		

DATE MAILED: 09/29/2003

#### Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

By other than a small entity.....\$480.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))......\$320.00

By other than a small entity.....\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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4.		Application No.	Applicant(s)	
Lamber   Lamber	Notic of Allowahility			•
The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowabite. PROSECUTION ON THE MERTIS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a holice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.913 and MPEP 1308.  1. ☑ This communication is responsive to Amendment A filed on 7.28-03.  2. ☑ The allowed claim(s) is/are 1.31.  3. ☐ The drawings filed on are accepted by the Examiner.  4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  * Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:	Notic of Anowability	Examiner	Art Unit	
All claims being allowable, PROSECUTION ON THE MERTIS IS (OR REMAINS) CLOSED in this application. If not included nerwith (or previously mailed,) a hotice of Allowance (PTOL-95) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR.1313 and MPEP 1308.  1. ☑ This communication is responsive to Amendment A filed on 7-28-03  2. ☑ The allowed claim(s) isfare 1-31.  3. ☐ The drawings filed on are accepted by the Examiner.  4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies not received:  **Certified copies not received:  5. ☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  (a) ☐ The translation of the foreign language provisional application has been received.  6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121.  Applicant has THREE MONTHS FROM THE *MALLING DATE* of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  (b) ☐ including changes required by the proposed drawing correction filed 28 July 2003. which has		Hae M Hyeon	2839	
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3.	<u> </u>			
a) All b) Some* c) None of the:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies not received:  5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  (a) The translation of the foreign language provisional application has been received.  6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121.  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  8. CORRECTED DRAWINGS must be submitted.  (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) hereto or 2) to Paper No  (b) Connected by the Adaptive of Draftsperson's Patent Drawing Review (PTO-948) attached  1) hereto or 2) to Paper No  (dentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.  9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  Attachment(s)  1 Notice of References Cited (PTO-892)  3 Notice of Draftperson's Patent Drawing Review (PTO-948)  4 Interview Summary (PTO-413), Paper No  6 Examiner's Statement of Reasons for Allowance of Biological Material	<u>—</u>	er.		
2	<del></del>	der 35 U.S.C. § 119(a)-(d) or (f).		
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6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  8. CORRECTED DRAWINGS must be submitted.  (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) hereto or 2) to Paper No.  (b) including changes required by the proposed drawing correction filed 28 July 2003, which has been approved by the Examiner.  (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No.  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.  9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  Attachment(s)  1 Notice of References Cited (PTO-892)  3 Notice of Draftperson's Patent Drawing Review (PTO-948)  5 Information Disclosure Statements (PTO-1449), Paper No.  6 Examiner's Amendment/Comment  7 Examiner's Comment Regarding Requirement for Deposit  7 Examiner's Comment Regarding Requirement for Deposit  8 Examiner's Statement of Reasons for Allowance  9 Other	_		опагаррисацоп).	
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Application/Control Number: 09/614,155

Art Unit: 2839

## **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance: In combination with all the limitations recited in the independent claims 1 and 23, all the prior arts do not show an optical fiber array apparatus comprising a V-groove chip having a V-groove and an optical fiber being bonded to a rear portion of the V-groove chip but not to a front portion of the V-groove chip, which is in proximity to an integrated optics chip or optoelectronic device.

For claim 13, all the prior arts do not show the optical fiber bonded the rear portion and the front portion of the V-groove, but not to a middle portion of the V-groove chip. The front portion is in proximity to the integrated optics chip or optoelectronic device.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hae M Hyeon whose telephone number is 703-308-4802. The examiner can normally be reached on Mon.-Fri. (8:30-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D Feild can be reached on 703-308-2710. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

## Any response to this action may be mailed to:

**Commissioner for Patents** 

P.O. Box 1450

Alexandria, VA 22313-1450

For additional information regarding this new address, which was effective May 1, 2003, see Correspondence with the United States Patent and Trademark Office, 68 Fed. Reg. 14332 (March 25, 2003).

#### Or Faxed to:

(703) 308-7722 or 308-7724

(Informal or draft communications should be clearly labeled "PROPOSED" or "DRAFT")

# Hand-delivered responses should be brought to:

Crystal Plaza 4, Fourth Floor (Receptionist) 2201 South Clark Place, Arlington, Virginia.

Hae M Hyeon Examiner Art Unit 2839

hmh hmh

Hae Moon Hyeon